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NOTICE OF ALLOWANCE AND FEE(S) DUE

45965

TIPS GROUP c/o Intellevate LLC

P. O. BOX 52050

10/551,364

Minneapolis, MN 55402

7590

09/07/2010

EXAMINER

CUTLIFF, YATE KAI RENE

ART UNIT

PAPER NUMBER

3081

1621

DATE MAILED: 09/07/2010

ASIAP022.US01

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

Jin-Suk Lee

02/27/2006 TITLE OF INVENTION: MANUFACTURING METHOD OF BIO-DIESEL OIL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	I	ATTORI	NEY DOCKET NO.	CONFIRMATION NO.
10/551,364	02/27/2006		Jin-Suk Lee		AS	IAP022.US01	3081
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/07/2010
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CUTLIFF, YATE KAI RENE 1621			554-169000				
FR 1.363). Change of corresp Address form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. ASSIGNEE NAME A	ess an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence ' Indication form ed. Use of a Customer A TO BE PRINTED ON T	registered attorney or agent) and the names of up to				
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	are submitted: To small entity discount p # of Copies	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	ger claiming SMALI	ENTI	TY status. See 37 CF.	R 1.27(g)(2).
OTE: The Issue Fee and terest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	he applicant; a regist	ered att	orney or agent; or the	assignee or other party in
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Tl all application. Confidentially is governed by the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,364	02/27/2006	Jin-Suk Lee	ASIAP022.US01	3081
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TIPS GROUP		CUTLIFF, YATE KAI RENE		
c/o Intellevate LLO		ART UNIT	PAPER NUMBER	
P. O. BOX 52050 Minneapolis, MN			1621 DATE MAILED: 09/07/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 379 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 379 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/551,364	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	YATE' K. CUTLIFF	1621	
	YATE K. CUTLIFF	1021	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	n this application. If not included unication will be mailed in due cou	rse. THIS
1. \boxtimes This communication is responsive to <u>8/10/2010</u> .			
2. 🔀 The allowed claim(s) is/are <u>11, 12 & 14 - 21</u> .			
3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:		or (f).	
1. Certified copies of the priority documents have		on Nia	
2. Certified copies of the priority documents have	• •		f.,
3. Copies of the certified copies of the priority d	ocuments have been received	d in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) I including changes required by the Notice of Draftsper	rson's Patent Drawing Review	v (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	n the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ck) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	ummary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No.	/Mail Date Amendment/Comment	
Paper No./Mail Date <u>12/27/2006</u>			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		Statement of Reasons for Allowa	nce
	9. Other		
Yate' K. Cutliff			
Assistant Examiner, Art Unit 1621			

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Art Unit: 1621

Allowable Subject Matter

1. Claims 11, 12 and 14 – 21 are allowed.

2. The following is an examiner's statement of reasons for allowance: none of the prior art references teach or suggest the process for producing a bio-diesel oil wherein a portion of the product produced in step b is recycled directly to esterification step (a) and/or transesterification step (b) prior to separation of impurities or glycerol from the alkyl ester of step (b).

A method for producing a bio-diesel by first pre-esterifying the free fatty acids in the fat or oil then the second step of transesterification the product from the pre-esterification step is well know in the art. (see Lever GB 612-667).

Further, Sucher (AT 406870 B) teaches the fatty acid alkyl ester produced by the transesterification process can be recycled back into a transesterification step.

However, in Sucher the glycerine is separated from the fatty acid alky ester transesterification product prior to recycling.

Furthermore, Peter et al. teaches that alkanol fatty acid esters (fatty acid alkyl esters) from the transesterification process can be returned to the transesterification step to produce a one phase reaction mixture. However, the alkanol fatty acid esters being returned are recirculated after separation of the glycerol. (Peter et al. col. 3, lines 49-67). Applicant's claimed process would return a mixture containing crude fatty acid alkyl ester along with glycerine, and unreacted glycerides to step (a) and/or step (b).

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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Art Unit: 1621

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YATE' K. CUTLIFF whose telephone number is (571)272-9067. The examiner can normally be reached on M-TH 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel M. Sullivan can be reached on (571) 272 - 0779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yaté K. Cutliff Patent Examiner Group Art Unit 1621 Technology Center 1600

/PORFIRIO NAZARIO GONZALEZ/ Primary Examiner, Art Unit 1621